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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/12/2019

Lab ID	:	CP-2020-01-31-90
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	150.40 X 150.56 X 151.44	22645	8.953	538.3	23.8	23.3
2	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	150.12 X 149.13 X 150.03	22387	8.147	502.8	22.5	
3	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	149.94 X 150.40 X 149.62	22551	8.500	531.1	23.6	

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Certificate No : TC-5548

Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-01-31-90 **Date: 26/11/2019**
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	151.96 X 151.65 X 151.18	23045	8.017	422.3	18.3	18.6
2	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	150.28 X 150.20 X 149.72	22572	8.915	423.2	18.8	
3	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	150.79 X 150.11 X 150.16	22636	8.970	424.0	18.7	

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Quality Manager

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Format No: CPTF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2019

: CP-2020-01-31-90

: Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

: BBMP/EE/BTP/WO 129/2019-20

: 21-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	150.68 X 149.17 X 151.55	22477	8.017	418.7	18.6	18.7
2	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	150.10 X 151.14 X 151.08	22686	8.915	421.9	18.6	
3	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	149.18 X 149.53 X 150.07	22307	8.970	422.0	18.9	

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/12/2019

Lab ID : CP-2020-01-31-90
Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/129/2019-20
Date of Receipt : 21-11-19
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 17/12/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	150.24 X 151.39 X 149.92	22746	8.953	537.0	23.6	23.1
2	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	149.49 X 149.40 X 151.24	22334	8.147	495.2	22.2	
3	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	149.78 X 149.67 X 151.96	22418	8.500	526.0	23.5	

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Page 1/1
****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-31-90 Date: 26/11/2019

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	149.94 X 149.08 X 150.37	22354	8.017	420.5	18.8	18.7
2	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	151.94 X 149.32 X 150.25	22688	8.915	425.1	18.7	
3	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	149.26 X 149.81 X 151.70	22361	8.970	412.8	18.5	

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Format No: CP/TL/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-31-90 **Date: 17/12/2019**

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	150.07 X 151.16 X 149.25	22685	8.953	539.6	23.8	23.2
2	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	151.16 X 150.69 X 150.98	22779	8.147	518.2	22.7	
3	Drain Side Wall Concrete	M20	19/11/2019	17/12/2019	150.78 X 151.04 X 150.53	22775	8.500	528.2	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-31-90 **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	151.82 X 150.15 X 149.50	22796	8.017	432.9	19.0	18.8
2	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	149.92 X 151.28 X 149.42	22680	8.915	416.6	18.4	
3	Drain Side Wall Concrete	M20	19/11/2019	26/11/2019	150.67 X 150.03 X 151.22	22605	8.970	427.5	18.9	

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Quality Manager

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Format No: CP/TF.01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/12/2019

ab ID : CP-2020-01-31-90
roject Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
ustomer's Reference : BBMP/EE/BTP/WO/129/2019-20
ate of Receipt : 16-11-19
ustomer ID : Drain Bottom Slab Concrete
ample Type /Size : 150X150X150 mm
ample grade/Age : M20 / 28 Days Compressive Strength
eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test : 12/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.91 X 150.30 X 149.73	22532	8.953	522.7	23.2	23.0
2	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	151.74 X 151.07 X 149.88	22924	8.147	508.1	22.2	
3	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	151.68 X 151.07 X 149.94	22915	8.500	542.6	23.7	

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Format No: CP TP 01

TEST REPORT OF CEMENT CONCRETE CUBES

Job ID	:	CP-2020-01-31-90 Date: 21.11.2019
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO 129/2019-20
Date of Receipt	:	16-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type/ Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N mm^2)	Average Compressive Strength (N mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	150.84 X 151.08 X 151.99	22788	8.017	424.5	18.6	18.3
2	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	151.06 X 149.11 X 149.27	22525	8.915	406.5	18.0	
3	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	150.69 X 150.88 X 149.43	22736	8.970	415.5	18.3	

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Format No: CP/TF/11

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-31-90 Date: 12.12.2019

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 58th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 16-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.87 X 151.75 X 150.69	22743	8.953	544.8	24.0	23.4
2	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	151.03 X 151.73 X 149.79	22915	8.147	512.2	22.4	
3	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.88 X 149.63 X 150.29	22425	8.500	538.1	24.0	

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****End of Report****

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4 7TH MAIN MALLESWARAM BANGALORE -3

Certificate No: TC/0541

Format No: QF/TC

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-01-31-90	Date: 21.11.2019
ject	: Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.	
ject Name	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 5th Cross Road, 17th C Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010	
ject	:	
stomer's Reference	: BBMP/EE/BTP/WO/129/2019-20	
te of Receipt	: 16-11-19	
sample ID	: Drain Bottom Slab Concrete	
ample Type Size	: 150X150X150 mm	
ample grade Age	: M20 / 7 Days Compressive Strength	
eference to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
te of test	: 21.11.2019	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	151.90 X 150.77 X 151.90	22902	8.017	423.1	18.5	18.5
2	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	151.86 X 149.06 X 150.28	22637	8.915	409.8	18.1	
3	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	149.35 X 151.71 X 151.77	22657	8.970	426.4	18.8	

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Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No TC-5548

Format No CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-31-90 Date: 12/12/2019

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 16-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.73 X 150.19 X 149.23	22488	8.953	525.9	23.4	23.0
2	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.70 X 150.57 X 149.88	22539	8.147	497.1	22.1	
3	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.60 X 150.40 X 151.11	22499	8.500	527.8	23.5	

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/11/2019

Lab ID : CP-2020-01-31-90
Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 50th Cross Road, 17th C Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/129/2019-20
Date of Receipt : 16-11-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	151.03 X 150.83 X 149.97	22779	8.017	413.3	18.1	18.4
2	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	149.37 X 151.03 X 150.71	22559	8.915	423.3	18.8	
3	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	149.44 X 150.21 X 150.41	22447	8.970	409.9	18.3	

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Quality Manager

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-01-31-90 Date : 12/12/2019
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 2nd Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	16-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.69 X 150.12 X 149.93	22472	**8.953**	527.2	23.5	
2	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	149.55 X 149.87 X 151.05	22412	**8.147**	515.1	23.0	23.2
3	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	150.36 X 150.53 X 151.28	22633	**8.500**	526.2	23.2	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID	:	CP-2020-01-31-90 **Date: 21/11/2019**
oject Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
ustomer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
ate of Receipt	:	16-11-19
ustomer ID	:	Drain Bottom Slab Concrete
ample Type Size	:	150X150X150 mm
ample grade/Age	:	M20 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	21/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	151.08 X 151.11 X 149.41	22830	8.017	429.8	18.8	18.5
2	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	150.77 X 149.52 X 150.93	22542	8.915	418.7	18.6	
3	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	150.30 X 150.06 X 149.46	22553	8.970	411.3	18.2	

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Format No: CPTF 01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/11/2019

...t ID	:	CP/2223-21/31/90
...ject Name	:	Improvement to Roads and Drains at Srinivasapura Village in Ward No.05.
...ent	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'A' Block, Rajajinagar, Bangalore-560010
...stomer's Reference	:	KRIDL/EE/BLR/WO 129/2019-20
...te of Receipt	:	20.11.19
...stomer ID	:	Drain Bottom Slab Concrete
...mple Type Size	:	150X150X150 mm
...mple grade Age	:	M20 7 Days Compressive Strength
...ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...te of test	:	21.11.2019

Sl. no.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	14.11.2019	21.11.2019	151.08 X 151.11 X 149.41	22830	8.017	429.8	18.8	18.5
2	Drain Bottom Slab Concrete	M20	14.11.2019	21.11.2019	150.77 X 149.52 X 150.93	22542	8.915	418.7	18.6	
3	Drain Bottom Slab Concrete	M20	14.11.2019	21.11.2019	150.30 X 150.06 X 149.46	22553	8.970	411.3	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/12/2019

ab ID	:	CP-2020-01-31-90
roject Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
ustomer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
ate of Receipt	:	16-11-19
ustomer ID	:	Drain Bottom Slab Concrete
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	150.32 X 150.63 X 151.04	22644	8.953	536.4	23.7	23.4
2	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	150.97 X 150.09 X 150.59	22660	8.147	520.2	23.0	
3	Drain Bottom Slab Concrete	M20	14/11/2019	12/12/2019	150.17 X 151.01 X 151.50	22678	8.500	537.5	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21.11.2019

Lab ID : CP-2020-01-31-90
Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.15.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #BM...59th Cross Road, 10th 'D' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560011
Customer's Reference : BBMP/EE/BTP/WO/129/2019-20
Date of Receipt : 16-11-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test : 21/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	149.37 X 149.80 X 151.47	22377	8.017	416.3	18.6	18.6
2	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	150.47 X 150.79 X 149.79	22690	8.915	414.7	18.3	
3	Drain Bottom Slab Concrete	M20	14/11/2019	21/11/2019	149.83 X 151.34 X 149.89	22675	8.970	430.6	19.0	

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 27-11-19

Lab ID	:	CP-2020-01-31-90
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	23-11-19
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	23/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF PRECAST COVER SLAB

Date: 22-11-19

ab ID	:	CP-2020-01-31-90
roject Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
ustomer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
ate of Receipt	:	18-11-19
ample Type /Size	:	Precast Cover Slab (100mm)
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
ate of test	:	18/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST RESULTS OF STEEL

Date: 13-11-19

Lab ID	:	CP-2020-01-31-90
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	12-11-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	12-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF FINE AGGREGATE

[illegible] Date: 11-11-19

[illegible]

PHYSICAL PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	1.3	
Specific Gravity	2.59	
Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF FINE AGGREGATE

Date: 11-11-19

Lab ID : CP-2020-01-31-90

Project Name : Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/129/2019-20

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-31-90 Date: 11-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index shall not Exceed 45% for Uncoated & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface 45% for Aggregates to be used in concrete other than for wearing Surface

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-31-90 Date: 11-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 07-12-19

Lab	:	CP-2020-01-31-90
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Date: 11-11-19

Lab ID	:	CP-2020-01-31-90
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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Format No: CP/TE/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-01-31-90 **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains at Srinivaspura Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/129/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 ,3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-11-19
Environmental Conditions during test	:	Temperature 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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8	Cement Concrete Pavemet (M20)	Compressive Strength(7days and 28days)	Set (150x200) cum	1563.65	14	14
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
10	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
11	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
12	TACK COAT	Rate of spread	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Srinivaspura Village in Ward No 05

Sl NO	Item Of Work	Name of Test	Frequency of Test Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC M20	Compressive Strength(7days and 28days)	6 set /100-150 cum	132.17	12	12

QC ABSTRACT

AND

QC REPORT